

Practice 4-3

Solving Proportions

Solve each proportion.

1. $\frac{3}{8} = \frac{m}{16}$ _____

2. $\frac{9}{4} = \frac{27}{x}$ _____

3. $\frac{18}{6} = \frac{j}{1}$ _____

4. $\frac{12}{q} = \frac{3}{4}$ _____

5. $\frac{3}{2} = \frac{15}{r}$ _____

6. $\frac{5}{x} = \frac{25}{15}$ _____

Estimate the solution of each proportion.

7. $\frac{m}{25} = \frac{16}{98}$ _____

8. $\frac{7}{3} = \frac{52}{n}$ _____

9. $\frac{30}{5.9} = \frac{k}{10}$ _____

10. $\frac{y}{12} = \frac{2.89}{4.23}$ _____

11. $\frac{5}{8} = \frac{b}{63}$ _____

12. $\frac{9}{4} = \frac{35}{d}$ _____

Solve each proportion.

13. $\frac{4}{5} = \frac{b}{40}$

14. $\frac{11}{7} = \frac{88}{c}$

15. $\frac{x}{1.4} = \frac{28}{5.6}$

16. $\frac{42.5}{20} = \frac{x}{8}$

17. $\frac{15}{25} = \frac{7.5}{y}$

18. $\frac{16}{b} = \frac{56}{38.5}$

19. $\frac{8}{12} = \frac{e}{3}$

20. $\frac{v}{35} = \frac{15}{14}$

21. $\frac{60}{n} = \frac{12}{5}$

22. $\frac{4}{7} = \frac{r}{35}$

23. $\frac{18}{16} = \frac{27}{t}$

24. $\frac{n}{12} = \frac{12.5}{15}$

25. 5 is to 8 as 15 is to w

26. y is to 8 as 22.5 is to 10

27. 14 is to b as 28 is to 18

28. 10 is to 7 as m is to 10.5

29. 30 is to 16 as j is to 8

30. r is to 17 as 81 is to 51

Write a proportion for each situation. Then solve.

31. Jaime paid \$1.29 for three ponytail holders. At that rate, what would eight ponytail holders cost her?

32. According to a label, there are 25 calories per serving of turkey lunchmeat. How many calories are there in 2.5 servings?

33. Arturo paid \$8 in tax on a purchase of \$200. At that rate, what would the tax be on a purchase of \$150?

34. Chris drove 200 mi in 4 h. At that rate, how long would it take Chris to drive 340 mi?
